

Turing jumps in the Ershov hierarchy

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Abstract

We look at infinite levels of the Ershov hierarchy in the natural system of notation, which are proper for jumps of sets. It is proved that proper infinite levels for jumps are confined to δ_α --levels, where α stands for an ordinal $\omega_n > 1$. © 2011 Springer Science+Business Media, Inc.

<http://dx.doi.org/10.1007/s10469-011-9141-x>

Keywords

constructive ordinals, Ershov hierarchy, superlow sets, Turing jumps